

SPHERICAL AND POLYHEDRAL SHELLS WITH IMPROVED SEGMENTATION

ABSTRACT: A shell (20) of generally spherical form is constructed by assembly of a plurality of oblong segments (30). The segments are obtained by dividing a spherical rhombic surface into equal parts such as by lines (40) running generally parallel to opposite sides. A half dome is obtained by dividing the figure in half with a great circle (22). Partial segments (27, 29) are utilized with no resulting waste. When used as building or other structures, improvements are realized in cost, strength, and conservation of energy and material resources.